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Translation

Minutes of the meeting of the mineral oil plant officials
held in Halle on 2 August 1950.

Start: 10 a.m.

End : 4 p.m.

List of those present: Smirnov, (fnu), representative of the general management of the Zeitz SAG plants; Stuehrmann, (fnu), and Jreyer, (fnu), representatives of the Main Department Chemical products in the Ministry of Industry; one representative of the Main Department Coal in the Ministry of Industry; one representative of the Trade Union for the Chemical Industry; the managers of the Zeitz, Louna, Roehlen, Tebau, Rositz, Koepsen, Goelzau, Edderitz, Poesdorf, Esponhain, Luetzkeendorf, and Schwarzhoide plants; Swatosch, (fnu), and von Dewall, (fnu), representatives of the DKMZ (German Fuel and Mineral Oil Center) in Berlin; Frau Dr. Doll, (fnu), representative of the Leipzig Main Laboratory of the Derunapht (German Russian Naphtha Company), and Grabow, (fnu), representative of the Central Administration of the Derunapht in Berlin.

Agenda:

1. Directives concerning quality.
2. Present deviations in quality.
3. Possibilities of improvement of quality.
4. Decisions.

Regarding point 1 on the agenda, Mr. Stuehrmann stated that the progress in improving the quality of fuel has come to a standstill in the last two years. It is true that we have practically no problems of quality if we only consider the production of our synthesis and hydrogenation plants. However, we urgently need to study the problem of quality because the best quality fuels must of course be released for export. The domestic German consumption has to rely almost exclusively on poor quality fuels produced in low temperature carbonization plants.

It is urgently required that the quality of the products of the low temperature carbonization plants be improved lest the development of the domestic German motor traffic be hampered. Mr. Stuehrmann will therefore announce the new directives on quality. These directives have been worked out by the Fuel Work Committee (Arbeitsausschuss) (Kraftstoffe) of the Chamber of Technology and will come into effect legally after they have been acknowledged by the plants and after expiration of the period, legally established for objections to be raised.

Quality specifications for fuel.a. Motor gasoline (22 61 11/12)

Initial boiling point

below 60 degrees centigrade

Up to 100 degrees centigrade

minimum 20 percent of the volume

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Up to 200 degrees centigrade	minimum 95 percent of the volume
Evaporation test mg/100 cc	maximum 20
Steam pressure according to Reid	
(a) In summer	maximum 0.6
(b) In winter	maximum 0.8
Density	at 15 degrees centigrade, lower than 0.800
NZ mg/KOH (neutralization number mg/caustic potash solution)	0 maximum 0.3
Total percentage of sulphur	0.3
Copper strip test	negative
Appearance	as clear as water, free of impurities
Octane number	68
b. <u>Diesel fuel</u> (22 63 11/12)	
Initial boiling point	160 to 260 degrees centigrade
Up to 300 degrees centigrade	60 percent of the volume
Poiling limit	360 degrees centigrade
Flash point	minimum 55 degrees centigrade, maximum 145 degrees centigrade
Conradson test	maximum 0.2
Cetane rating	minimum 40
Density at 20 degrees centigrade	0.800 to 0.900
NZ mg/KOH (neutralization number mg/caustic potash solution)	not exceeding 0.2
Hard asphalt	0
Water content	0.5
Ash content	maximum 0.05
Zinc strip test	maximum 4
Appearance	light to dark, free of impurities
Start of the paraffin separation	not until 5 degrees below zero centigrade in winter
Solidification point	
(a) In summer	at zero degrees centigrade still flowing
(b) In winter	at 10 degrees below zero centigrade still flowing

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c. Fuel gas (22 71 30)

Steam pressure according to Reid

- | | |
|---------------|---|
| (a) In summer | minimum 0.7 atmospheres at zero degrees centigrade
maximum 16.7 atmospheres at 40 degrees centigrade |
| (b) In winter | minimum 1.5 atmospheres at 15 degrees below zero centigrade |

Composition

- | | |
|---------------|--|
| (a) In summer | maximum 75 percent of the weight, butane maximum 3 percent of the weight, inert gases the remainder propane and ethane |
| (b) In winter | maximum 65 percent of the weight, butane maximum 3 percent of the weight, inert gases the remainder propane and ethane |

Sulphur	not above 0.2
Organically latent sulphur	not above 250 mg/cubic meter
Hydrogen sulphide	not above 0.2 mg/cubic meter
Carbon monoxide sulphate	negative
Resin and resin formation	negative
"Doctor" test (Doktor test) (mercaptan) negative	
Oil traces	not above 10 mg/10 liters
Water content	under pressure no ice or hydrocarbon separations of crystals may be formed above 30 degrees below zero centigrade

Regarding point 2 on the agenda:

The representatives of the DMKZ and of the Darunapht stated the current deviations from the quality specifications mentioned. The representatives of the mineral oil plants offered their views on this subject. The reasons for the unusually high sulphur content of the low temperature gasolines and the measures for its elimination were also debated as well as the poor operational characteristics of the Diesel fuels in cold weather.

Regarding point 3 on the agenda:

The following two propositions were made to insure a general improvement of the quality of fuel:

- a. The representatives of the hydrogenation plants proposed to suspend gasoline production in the low temperature carbonization plants and to allow the basic material, i.e., light oil, to date processed by the low temperature carbonization plants, to be released for hydrogenation. The light oils would have to be allocated to the Leuna Plant, as the Zeitz and Rochlen hydrogenation plants are being operated to capacity.

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- b. For the improvement of the gasoline the DKM and Derunapht proposed that the low temperature carbonization plants improve their gasoline production by admixing 15 to 20 percent light gasoline from the synthesis plant in Schwarzhofe. They furthermore proposed that the octane number of the remaining gasoline be adjusted to the requirements of the German automobile engines by admixing lead tetraethylene to be imported from the U.S.S.R. in accordance with the trade agreement. These propositions were thoroughly debated and following decision was taken:

"All representatives attending the meeting on fuel quality held on 2 August 1950 in Halle came to following decision:

1. The suggested quality specifications for gasoline, Diesel fuel and liquid gas, with the exception of the new octane number, are acknowledged by the plants. The quality norms are temporarily eased for following plants:
 - a. The tar distillation plants are allowed temporarily to produce gasoline with a sulphur content up to one percent.
 - b. The Zeitz Hydrogenation Plant may temporarily produce export-bound Diesel fuel with a boiling limit over 360 degrees centigrade.
2. All gasoline produced in the distillation plants has to be mixed with gasoline produced by synthesis to insure temporary fulfillment of the norm, i.e., 20 percent of the volume up to 100 degrees centigrade.
3. Beginning with 1951 the increase of the octane number to the 68 required for all gasolines will be insured by the import of the necessary stocks of lead tetraethylene.
4. Light oils yielding, in the tar distillation process, a gasoline with more than one percent sulphur will be allocated to the Louna Plant for further processing.
5. There will be a contest of all fuel-producing plants with a view to improving the fuel quality. The plants having the same facilities and equipment and operating on the same system will compete among themselves. This competition will be expanded to the entire industry. The conditions of contest terms have to be set up by the individual plants and must be reported by 14 August 1950 at the latest to the Trade Union for the Chemical Industry at 15 Unter den Linden in Berlin W 8, attention Mr. Dehmelt. "

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